

# Peaceful Nuclear Cooperation

U.S. Support for NPT Article IV

## UNITED STATES & MONTENEGRO

Through the International Atomic Energy Agency (IAEA), the United States contributes to the work of many countries using nuclear materials and technology for peaceful purposes. In recent years, U.S. support has focused on achieving tangible and lasting benefits in fields that are vital to human development, including agriculture, human health, water resource management, and human resource development. Since Montenegro declared independence in 2006, the IAEA has approved and funded \$2,303,932, including \$351,526 in 2013, under its Technical Cooperation (TC) program for projects in Montenegro.



In addition to the United States' longstanding support for the IAEA's activities to promote peaceful nuclear applications, at the 2010 NPT Review Conference, the United States announced a \$100 million USD effort to expand this support over the next five years. The United States has pledged \$50 million towards the IAEA's Peaceful Uses Initiative (PUI), focusing on human health, food security, water resource management, and nuclear power infrastructure development.

The United States views its support for peaceful uses of nuclear energy, to which all NPT Parties are entitled, as a critical part of its broader effort to strengthen the IAEA and the global nuclear nonproliferation regime. The U.S. has already designated over \$22 million for IAEA projects benefitting over 120 countries, including Montenegro, for which funding was previously unavailable. The United States is working with partners to reach the \$100 million goal, and welcomes commitments of over \$12 million from Japan, the Republic of Korea, New Zealand, the Czech Republic, Hungary, Sweden, Australia, France, Indonesia, Brazil, Italy, the UK and Kazakhstan.

### NUCLEAR ENERGY

Due to the continued increase in fossil fuel prices, concerns about secure supply and an increasing awareness of the importance of greenhouse gas reductions, several countries are considering expanding their nuclear power programs or introducing nuclear energy for the first time. This requires

careful planning, preparation and investment in a sustainable infrastructure to provide the legal, regulatory, technological, and human resources necessary. Montenegro is therefore participating in a regional TC project sponsored by the United States to strengthen national and regional infrastructures for the planning and development of nuclear power programs. The project will ensure that any Member State planning the introduction or expansion of nuclear energy has a complete understanding of the range of issues and activities to be addressed before implementation of a nuclear power project.

### NUCLEAR FUEL

Several countries including Montenegro, recently participated in a U.S.-sponsored regional TC project to facilitate the return of highly enriched and low-enriched uranium to the country of origin. The project assisted participating countries with research reactors to repatriate, manage, or dispose of their fresh or irradiated fuel, and supported the Russian Research Reactor Fuel Return program and the Global Threat Reduction Initiative.

### NUCLEAR SAFETY

Disused facilities and sites contaminated because of activities involving the use of radioactive material exist worldwide and many pose continuing health risks to adjacent communities and, potentially, to the wider public. Montenegro is currently participating in an interregional TC project sponsored by the United States that will provide support and assistance toward the efficient clean-up of radioactive contaminated facilities and sites. Through this project, barriers to the acceptance of continued or expanded applications of peaceful uses of nuclear technology can, to some extent, be removed. Montenegro is

1. *Nuclear power plant under construction.*  
Credit: IAEA
2. *Exploring ways to secure radioactive waste for generations to come.* Credit: Comet
3. *Verifying a load of highly enriched uranium fuel before it is brought back to Russia.*  
Credit: Dean Calma/IAEA

also participating in regional TC projects through which Member States will improve their comprehensive regulatory infrastructure for the safety and control of radiation sources, establish and develop adequate and effective regulatory mechanisms, and harmonize and streamline national capabilities for regulatory control in full compliance with the IAEA Safety Standards and international requirements.

## AGRICULTURE

In parts of the Balkans and the Eastern Mediterranean, the Mediterranean fruit fly causes major damage to fruit and vegetable production by reducing fruit production, increasing insecticide use, and therefore directly impacting the production cost of agricultural commodities. Moreover, it causes problems in international trade in fruits and vegetables due to quarantine regulations imposed by some countries, and maximum insecticide residue limits allowed by others.

Montenegro is working through a regional TC project sponsored by the

United States to enhance agricultural productivity in the Balkans and Eastern Mediterranean by supporting fruit fly pest prevention and management. This will be accomplished through sharing technical knowledge and providing support to selected fruit fly suppression programs in which the use of the sterile insect technique (SIT), as part of an area-wide integrated management approach, has already proven to be technically and economically feasible.

## HUMAN RESOURCES

To contribute to Member States' manpower development, the IAEA awards individual fellowships and organizes group training courses. Every year, numerous fellows and training course participants travel to the United States for training in various peaceful uses of nuclear technology and return to their home country to apply the lessons learned.

In 2010, Montenegro participated in a training course the United States hosted in the field of nuclear security.



1. *Metal seals show evidence of any unauthorized attempts to access secure material. Credit: Dean Calma/IAEA*
2. *Damaged apples infested with fruit flies. Credit: Louise Potterton/IAEA*
3. *IAEA fellows receive training in plant breeding. Credit: Dean Calma/IAEA*

FOR ADDITIONAL INFORMATION, CONTACT:

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